

ABSTRACT

AIM:

To analyze the effect of 3% acetic acid dressings in eradication of *Pseudomonas aeruginosa* in comparison with conventional saline dressings in diabetic foot ulcers.

OBJECTIVE

- To study the effect of 3% acetic acid dressings on *Pseudomonas aeruginosa* infected diabetic foot ulcers

METHODOLOGY:

80 diabetic patients with foot ulcers from the department of general surgery, general medicine, nephrology and cardiology were studied. Detailed clinical history, evaluation of the ulcer and presence of *Pseudomonas aeruginosa* were assessed.

These patients were randomized by simple randomization technique into two groups of 40 patients each. One group received acetic acid dressings and the other group received conventional saline dressings. The elimination of *Pseudomonas aeruginosa* was studied in both groups by assessing the culture reports from day 10. The results were tabulated.

RESULTS:

A better response towards elimination of the pathogen was seen with acetic acid dressings in comparison with conventional saline dressings. The limitations included small sample size.

CONCLUSION:

Acetic acid dressings in 3% concentrations, help in better loco regional control by elimination of *Pseudomonas aeruginosa* by lowering the pH and removal of biofilms when compared with conventional saline dressings. It is easily available and is an economic alternative to individuals affected.